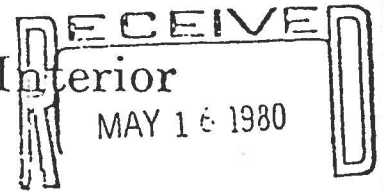




United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
NAVAJO AREA OFFICE
WINDOW ROCK, ARIZONA 86515



IN REPLY REFER TO:

ARPM/Minerals

U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO
MAY 13 1980

Memorandum

To: Area Mining Supervisor, Conservation Division
U. S. Geological Survey, Albuquerque, New Mexico

From: ~~Assistant~~
Area Director

Subject: Proposed Interim Mining Plan and Original Exploration Plan
on Navajo Allotted Mining Lease No. N00-C-14-20-8396

We have reviewed the subject plans and submit the following comments for your information and consideration for implementation into the proposed plans.

Exploration Plan

Paragraph 2 - What is proposed for ventilation in the 1200 Haulage Drift and its crosscuts since no surface disturbances are proposed?

Paragraph 3 - Archeological Clearance shall be required for all of the SW $\frac{1}{4}$ of Section 18, T. 13 N., R. 10 W., prior to the commencement of the described exploration operation. The Navajo Area Archeologist in the Environmental Quality Office at Window Rock shall be kept advised of all archeological surveys, reports and any necessary mitigating actions during the duration of this project.

Paragraph 17 - Recontouring and revegetation shall include all access roads and other surface disturbances resulting from the exploration operation.

Addendum to Exploration Plan

6. Endangered Species

Endangered species (Flora or Fauna) are known to inhabit the area. A list of Flora and Fauna in the area should be requested from U. S. Fish and Wildlife Service in Albuquerque. If there is any indication of endangered species, then a Section 7 Consultation must be considered.

Interim Mining Plan

2.7 Archeological studies should be coordinated with Quality Office, Window Rock.

6.3 See paragraph 6 comment under Addendum to Exploration Plan.

12. Health and Safety Measures

This section needs to be expanded and the following actions discussed in detail.

Ground Control
Safety and Health Training and Inspections
Hazard Training
Provisions for Ventilation and Dust Control
Fire Control
Havlage Safety
Emergency Escapeways and Procedures

Leif L. Zaun

CORRESPONDENCE WITH BIA

APPENDIX C



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

April 4, 1980

Memorandum

To: Geologist, Resource Evaluation, SCR

From: Mining Engineer, Albuquerque District, SCR

Subject: Todilto Exploration and Development Corporation's Proposed
Exploration and Interim Mining Plans for the SW/4, Section
18, T. 13 N., R. 10 W., N.M.P.M., McKinley County, New Mexico

Please review the enclosed copies of the subject plans, and
return them with your report on the protection of any mineral
resources involved.

Dale C. Jones
Mining Engineer

Enclosures



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
P.O. Box 26124
Albuquerque, New Mexico 87125

April 25, 1980

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138
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BP

MEMORANDUM

TO: Dale C. Jones, Mining Engineer, Albuquerque, New Mexico

THROUGH: Acting Deputy Conservation Manager for Resource Evaluation, Roswell, New Mexico

FROM: Geologist, Resource Evaluation, Albuquerque, New Mexico

SUBJECT: Review of Todilto Exploration and Development Corporation's Proposed Uranium Exploration and Interim Mining Plans for Vandever Lease N00-C-14-20-8396

Todilto Exploration and Development Corporation's proposed exploration plan for the Vandever lease located in the SW $\frac{1}{4}$ of section 18, T.13N., R.10W., NMPM, McKinley County, New Mexico, is to drill a minimum of 160 exploration drill holes to locate uranium ores in the Todilto Limestone. If warranted, an additional 1,000 fill-in holes on 25 foot centers will be drilled. The depth of the exploration drill holes will be between 150 and 180 feet, becoming somewhat shallower to the south, and much deeper beneath the slope of Haystack Mountain to the north.

This area is not considered as prospectively valuable for geothermal, potash, or coal resources. The uppermost formation exposed in this area, the Dakota Sandstone, is stratigraphically below any potential economical coal-bearing formations. It is, therefore, unlikely that any conflict will develop between uranium mining and coal or any other mineral interests.

Although T.13N., R.10W. is classified as prospectively valuable for oil and gas resources, there has been little oil and gas exploration and no successful completions in this or adjacent townships. There are no oil or gas well locations within the subject township. The nearest petroleum test was in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ section 26, T.14N., R.11W., drilled to 240 feet by George Senutovitch, and abandoned on October 12, 1961. In the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of section 14, T.14N., R.11W., Stella Dysart's Federal No. 14-1 was drilled to a depth of 4786 feet in the Pennsylvanian. This test, too, was

NOTED
D. M. VAN SICKLE

unsuccessful and was abandoned on June 18, 1959. Superior Oil Company's San Mateo No. 1-14 located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of section 14, T.14N., R.8W., was drilled to a total depth of 6253' to Precambrian basement without any show of oil or gas and was subsequently abandoned on February 28, 1954. In view of these unsuccessful attempts, it is doubtful that any conflict will arise with oil and gas interests.

The placement of drilling equipment in arroyos may constitute a potential geologic hazard during the summer months from possible flash flooding associated with intense thunderstorms. Care should also be taken in the construction of the proposed drilling roads on the slope of Haystack Mountain so as not to create conditions leading to rockfall, landslides, or road-bank washouts during storm runoff.

The Todilto Exploration and Development Corporation also submitted an interim mining plan along with the exploration plan. Their present operations are located in the SE $\frac{1}{4}$ of section 13, T.13N., R.11W. The mining plan is to expand existing underground operations due east into the Vandever lease to extract ore from the Todilto Limestone that is shown to exist from their present operations. In view of the fact that this proposed expansion of their haulageway will be beneath an existing structure, the exact depth to the ore from the ground surface and probable thickness of the orebody to be mined should be evaluated to assess the possibility of subsidence and subsequent damage to the structure.

The problem of contamination of groundwater was also addressed in both proposals. It is unlikely that any problems will be encountered at such shallow depths. However, this may not be true in the northern part of the SW $\frac{1}{4}$ of section 18 where the depths to the ore will be much greater. In section 29, T.13N., R.9W., where mining is carried out to depths of 450 feet, as much as 350 gpm of water must be pumped out of the Todilto to permit mining.

The proposed exploration and interim mining plans submitted by the Todilto Exploration and Development Corporation presented an adequate discussion of the geology and potential geologic hazards of the area. Their past mining and drilling operations in this area have never encountered groundwater nor caused any surface disturbance due to underground caving.

Martha Moore
Martha Moore
Geologist

Enclosures



United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
P.O. Box 26659
Albuquerque, NM 87125

April 10, 1980

MEMORANDUM:

To: Mining Engineer, Albuquerque District, SCR

From: District Chief, WRD, CD, Albuquerque

Subject: Todilto Exploration and Development Corporation's Proposed
Exploration and Interim Mining Plans for the SW/4, Section
T.13 N., R.10 W., N.M.P.M., McKinley County, New Mexico

This is in response to a request by Conservation Division of the U.S. Geological Survey to review the subject plans and report on protection of water resources involved.

The subject plans as stated show no threat to water resources in the area. No ground water should be encountered. Should ground water be encountered adequate protection of this resource are outlined in the plans.

A well in section 19 is noted in the Addendum to Exploration Plan, paragraph 5.2. The plan states there are no other known wells in the vicinity.

Navjo Tribe records on file at the Water Resources Division show a well located in section 18 and numbered 16T-521. It is 414 feet deep and completed in the Entrada. These records also describe a well located "one mile SE of Haystack Mountain." This well may be in section 19. It is numbered 16T-551 and is 1083 feet deep.

Elizabeth Padgett
Hydrologist

For: James F. Daniel
District Chief



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

CORRESPONDENCE WITH USGS

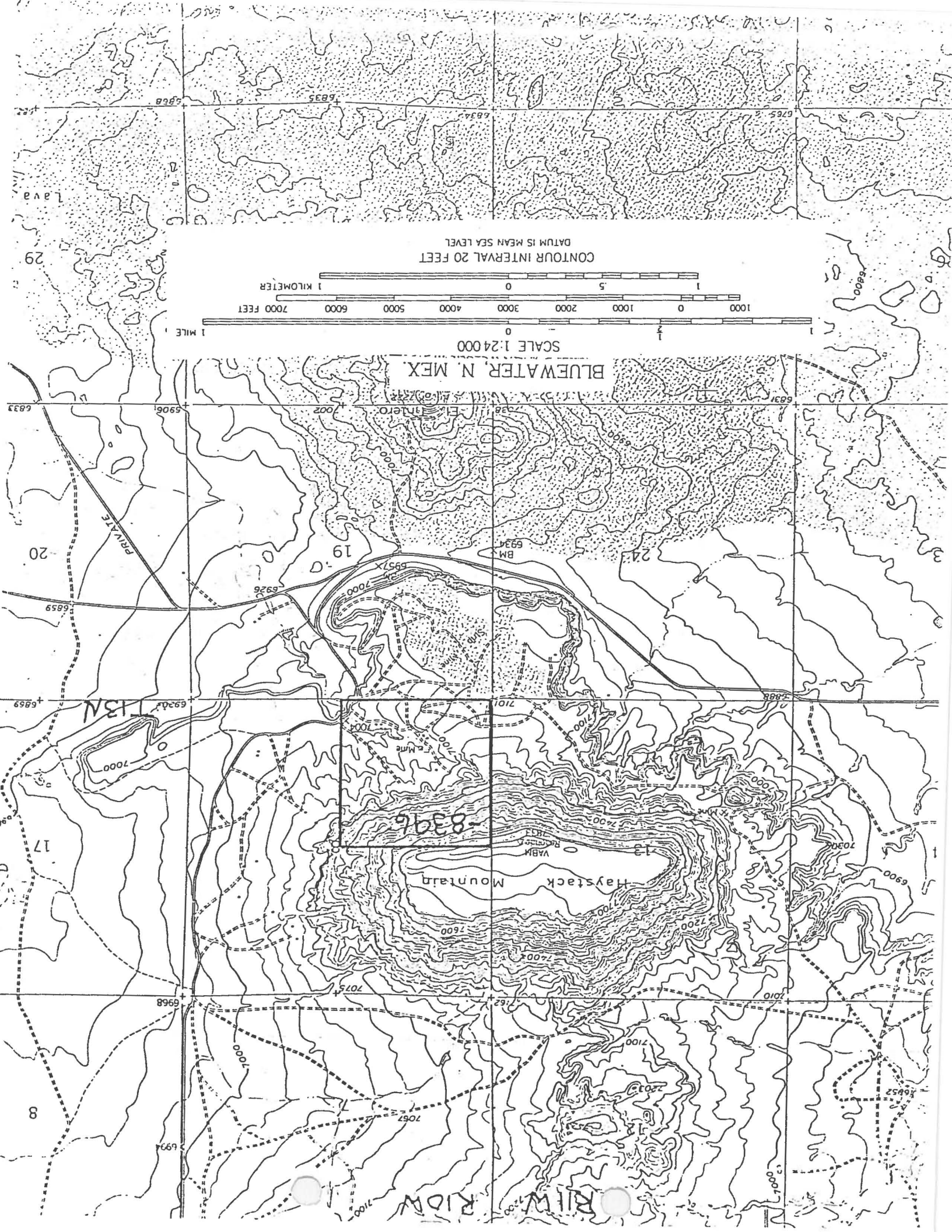
APPENDIX B

Age	Formation	Unit	Lithology	Columnar Section
JURASSIC	Summer-ville formation		Reddish-brown sandstone, massive to thin bedded, fine, grained, well sorted, fluvialite.	
			Pale grayish-green mudstone	
	Todilto limestone	intertonguing zone	Light gray siltstone and sandstone with limestone lentilules; sandstone is fine-grained, massive, and calcareous; limestone is light and medium gray, massive, and very coarse-grained.	
		"crinkly" (recrystallized) zone	Mottled medium and dark gray limestone; thin crinulated bedding highly recrystallized coarse-grained, local silty lenses.	
		platy zone	Thick-bedded gray limestone	
			Light to medium gray, alternating thick and thin bedded, very fine-grained dense limestone.	
	Entrada sandstone		Sandy limestone.	
			Reddish-brown sandstone, fine- to medium-grained, well sorted; uppermost five feet bleached white; eolian cross bedding.	

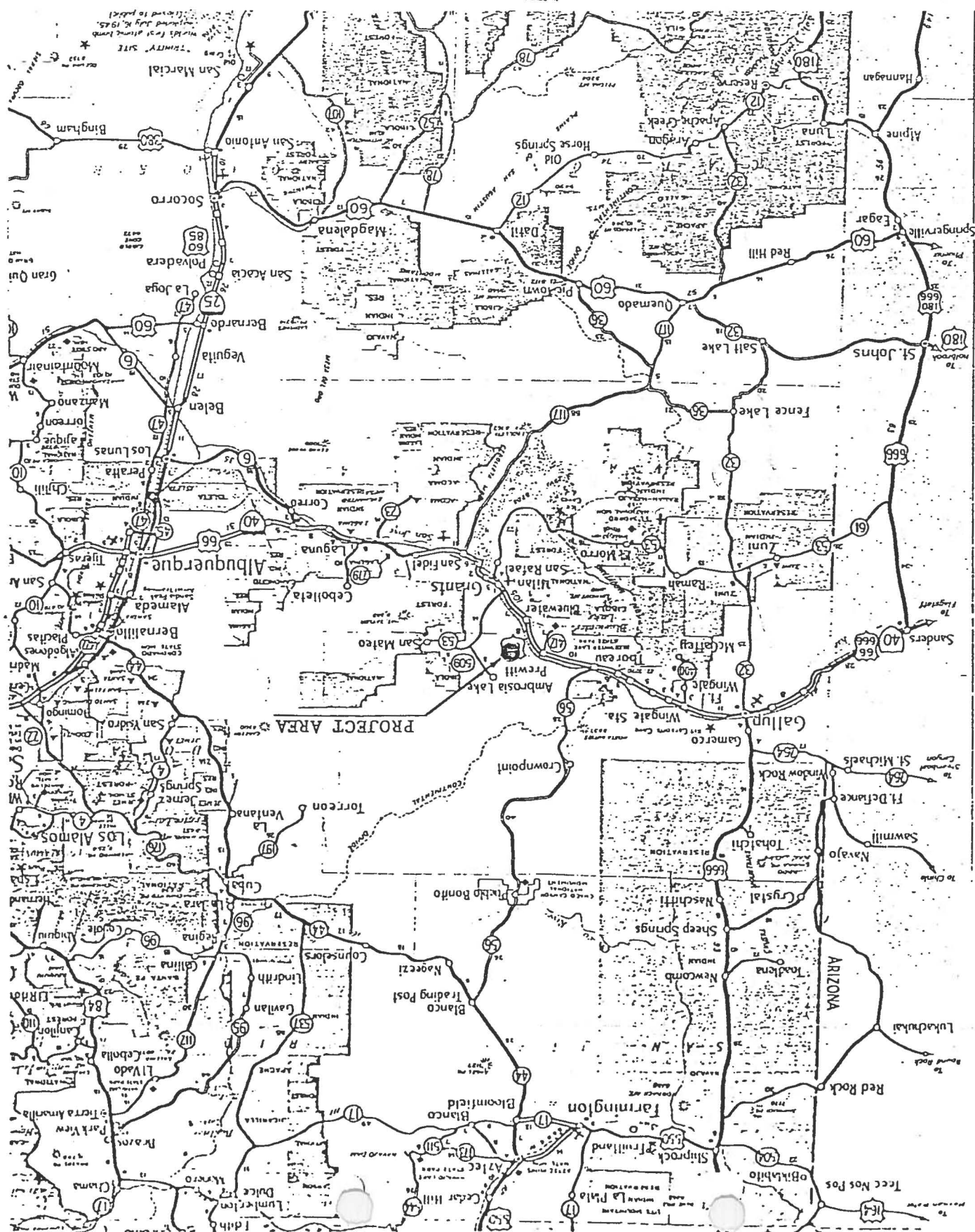
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April 1956 RME - 120

Stratigraphy of the Todilto limestone and portions of adjacent formations in the vicinity of Haystack Butte, McKinley County, New Mexico



PROJECT LOCATION MAP



G. LAND USES

1. General: This project will only take about twenty-three acres out of grazing use for a relatively small amount of time (three years). Exploration Plan
2. Affected Floodplains and/or Wetlands: Project not in floodplain and/or wetland areas. Exploration Plan

H. AESTHETICS: The project will not permanently change the aesthetics of the project area. Personal knowledge

- I. SOCIO-ECONOMICS: The people who will be employed to perform the exploration activities already live and work in the area, therefore, there will be minimal socio-economic impacts. Personal knowledge

J. CULTURAL RESOURCES DETERMINATION

Based on the formal comments received from National Park Service on June 6, 1980, we determine that there would be no effect on cultural resources subject to: if any undetected cultural material is found during operations, all works must cease in the immediate areas, and the Office of Contract Archeology will be contacted. National Park Service

- K. OTHER: Cumulative impacts: Uranium exploration drilling operations have minimal cumulative impacts because reclamation and the abandonment are performed contemporaneously with drilling. Exploration Plan

Personal knowledge

- L. ADEQUACY OF RESTORATION PLANS: TEDCO's reclamation work to date has been satisfactory. Exploration Plan

E. WATER RESOURCES1. Hydrologic Character

a. Surface Waters: This project will have no effect on surface water.

Exploration Plan
Water Resources Division

b. Ground Waters: This project will have no effect on ground water.

Exploration Plan
Water Resources Division

2. Water Quality

a. Surface Waters: This project will have no effect on surface water quality.

Exploration Plan
Water Resources Division

b. Ground Waters: This project will have no effect on groundwater quality.

Exploration Plan
Water Resources Division

F. FLORA AND FAUNA1. Endangered and Threatened Species Determination

Based on the informal comments received from Fish and Wildlife Service on April 25, 1980, we determine that there would be no effect on listed endangered and threatened species and/or their critical habitat.

Fish and Wildlife Service

2. Flora: Twenty-three acres will be disturbed by this project. Any effects on the flora will only be temporary.

Fish and Wildlife Service
Exploration Plan

3. Fauna: This project will not effect any special nearby environmental conditions relevant to fauna.

Fish and Wildlife Service

PARAMETERINFORMATION SOURCE(S)A. GEOLOGY

1. Other Local Mineral Resources to be Protected: No other mineral resource will be affected.

Memo from AreaGeologist dated 4-25-80

2. Hazards

- a. Land Stability: Project will not effect land stability.
- b. Subsidence: No subsidence hazard due to nature of project.
- c. Seismicity: No seismic hazard due to nature of project.
- d. High Pressure Zones/Blowout Prevention: No blowout hazard present.

Memo from Area Geologist
dated 4-25-80Memo from Area Geologist
dated 4-25-80Memo from Area Geologist
dated 4-25-80Memo from Area Geologist
dated 4-25-80B. SOILS

1. Soil Character: Drilling operations will improve soil characteristics due to the reclamation that will be performed.

Exploration Plan

2. Erosion/Sedimentation: Construction of two roads could increase erosion, but construction of water bars on the roads will minimize this problem

Exploration Plan

- C. AIR QUALITY: The lack of any sizeable contributory source makes air pollution a minimal adverse effect.

EA - TEDCO - 5681

- D. NOISE LEVELS: Noise level would be slightly elevated, but this is only temporary in nature, and will only have minimal effect on the local inhabitants.

Navajo - Exxon EIS

P. O. Box 26124
Albuquerque, New Mexico 87125

May 21, 1980

Memorandum

To: Area Director, Navajo Area Office, BIA

From: Mining Engineer, Albuquerque District, USGS, SCR

Subject: Proposed Original Exploration Plan for Navajo Allotted
Mining Lease NOO-C-14-20-8396

Our response to your memorandum of May 13, 1980, regarding your comments on the subject exploration plan is as follows:

Exploration Plan

Paragraph 2 - This aspect has been dropped from the exploration plan and has been submitted as the interim mining plan.

Paragraph 3 - See Addendum to Exploration Plan, Section 1. This survey has already been made and submitted to the National Park Service.

Paragraph 17 - This is covered on page 3 of the exploration plan, and will be emphasized in the approval letter. To date, TEDCO has done a good job of reclaiming their drill sites.

Addendum to Exploration Plan

6. Endangered Species:

An informal endangered species consultation has been provided for this project by the Fish and Wildlife Service. They state that no threatened or endangered species are present in this quarter section.

I hope this satisfactorily answers your concerns. If no, please do not hesitate to contact me; if so, please send your concurrence for this project as soon as possible.

(ORIG. SGD.) DAVID R. SITZLER

David R. Sitzler

cc: Exploration File
Chrono

DRSitzler:ab: 05-21-80



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Box 26124
Albuquerque, New Mexico 87125

May 21, 1980

FORM
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R/W
DR. DR.
FILE

Memorandum

To: Area Director, Navajo Area Office, BIA

From: Mining Engineer, Albuquerque District, USGS, SCR

Subject: Proposed Original Exploration Plan for Navajo Allotted Mining Lease NOO-C-14-20-8396

Our response to your memorandum of May 13, 1980, regarding your comments on the subject exploration plan is as follows:

Exploration Plan

Paragraph 2 - This aspect has been dropped from the exploration plan and has been submitted as the interim mining plan.

Paragraph 3 - See Addendum to Exploration Plan, Section 1. This survey has already been made and submitted to the National Park Service.

Paragraph 17 - This is covered on page 3 of the exploration plan, and will be emphasized in the approval letter. To date, TEDCO has done a good job of reclaiming their drill sites.

Addendum to Exploration Plan

6. Endangered Species:

An informal endangered species consultation has been provided for this project by the Fish and Wildlife Service. They state that no threatened or endangered species are present in this quarter section.

I hope this satisfactorily answers your concerns. If no, please do not hesitate to contact me; if so, please send your concurrence for this project as soon as possible.

David R. Sitzler

RECEIVED

MAY 22 1980

AREA BRANCH OF
A PROPERTY MGMT.



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Box 26124
Albuquerque, New Mexico 87125

May 27, 1980

Memorandum

To: Area Director, Navajo Area Office, BIA

From: Mining Engineer, Albuquerque District, USGS, SCR

Subject: Proposed Interim Mining Plan for Navajo Allotted Mining
Lease NOO-C-14-20-8396 - Todilto Exploration and Development
Corporation

Our responses to your memorandum of May 13, 1980, regarding your comments on the subject interim mining plan are as follow:

Interim Mining Plan:

- 2.7: An archeological survey has been conducted, and clearance is being obtained from the National Park Service in Santa Fe, New Mexico.
- 6.3: An informal endangered species consultation has been obtained from the Fish and Wildlife Service in Phoenix, Arizona, and it states that no endangered species are present in the project area.
- 12: This information will be discussed in the environmental analysis which is being prepared on this project.

If this answers all the concerns that you have with this project, please send your concurrence as soon as possible.

David R. Sitzler
David R. Sitzler

RECEIVED

MAY 28 1980

AREA DIRECTOR
PROJECT NO. 1

2

INSPECTION REPORT

INSPECTOR(S) David R. Sitzler, Mining Engr., USGS DATE June 3, 1980

PARTICIPANT(S) None.

LESSEE/ALLOTTEE Todilto Exploration and Devel. Corp. OPERATOR N/A

LOCATION SW/4, Sec. 18, T. 13 N., R. 10 W., N.M.P.M., NOO-C-14-20-8396

MINERAL Uranium OPN _____ PRODUCTION _____ CHECKED _____

ACTIVITY None.

ENVIRONMENT This lease is located on the southeast side of Haystack Mountain.
Vegetation consists of various grasses, Junipers, Pinyons, and minor cactus. The
climate is semi-arid, with annual precipitation of about 12 inches. The land is
used locally by the owners for grazing.
SAFETY N/A

REMARKS This field inspection was conducted for the usual environmental analysis
which is being prepared on TEDCO's original exploration plan for this lease.

ORDERS ISSUED/RECOMMENDATIONS None.

cc: Files
Reston (Thru Denver)
Area Dir., Navajo Area Office, BIA
Field File - Sitzler
DMC, Mining, SCR

UNITED STATES GOVERNMENT

Memorandum

TO : Mining Engineer, Albuquerque District, SCR

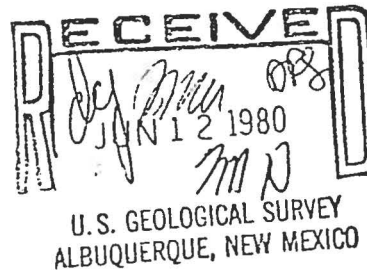
DATE: JUN 5 1980

FROM : Navajo Area Director

SUBJECT: Proposed Original Exploration Plan - Todilto Exploration and Development Corporation, Navajo Allotted Mining Lease N00-C-14-20-8369

In response to your memorandum of May 21, 1980, regarding the subject exploration plan, we have reviewed your responses to our comments and herewith concur in the Proposed Original Exploration Plan.

Plamen Stoyanov





IN REPLY REFER TO:
H24 (SWR) PS

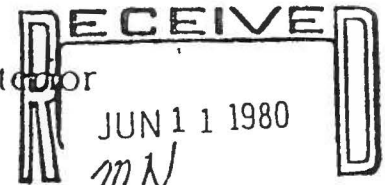
United States Department of the Interior

NATIONAL PARK SERVICE

SOUTHWEST REGION

P.O. Box 728

Santa Fe, New Mexico 87501



U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

JUN 06 1980

Mr. Timothy Pearson
Todilto Exploration and
Development Corporation
3810 Academy Parkway South, NE
Albuquerque, New Mexico 87109

RE: Conditional Archeological Clearance; 157 Drill Locations and
Associated Accesses, Section 18, T13N, R10W, McKinley County, New
Mexico
OCA 80-134

Dear Mr. Pearson:

Our office has received and reviewed an archeological survey report by
Mr. Stephen Lent, Archeologist with the Office of Contract Archeology,
of the SW $\frac{1}{4}$, Section 18, T13N, R10W, N.M.P.M., which was surveyed on
April 7 and 8, 1980.

The survey revealed archeological sites and "localities" at the following
locations:

<u>Site</u>	<u>Location</u>
<u>OCA: TOD:</u>	<u>Sec. 18, T13N, R10W</u>
1. PII - PIII Artifact Scatter	SE $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$
2. Navajo Complex	SW $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$
3. Poss. Prehistoric Lithic Scatter	SE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$
4. PII - PIII Scatter & Alignments	NW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$
5. Navajo Complex	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$
6. Navajo Complex	SE $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$
7. Navajo Sweathouse	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$
8. Navajo Complex	SE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$

RECEIVED

JUN 26 1980

AREA E
REAL PROPERTY

Localities

- | | |
|------------------------|--|
| 1. Lithic Scatter | SW $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$ |
| 2. Hearth | SW $\frac{1}{4}$, SW $\frac{1}{4}$, NW $\frac{1}{4}$ |
| 3. Corral | SE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$ |
| 4. Lithic Scatter | SW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$ |
| 5. Poss. Lambing Pen | SW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$ |
| 6. Abandoned Mine Site | NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$ |

In addition, nine isolated occurrences were recorded throughout the survey area.

Your office has submitted to us an exploration plan and maps indicating 157 proposed drilling areas and associated access roads. In a telephone conversation with us on May 29, 1980, you indicated the area of disturbance for each drill hole would be approximately 1/10 of an acre (approximately 66' x 66'). The addendum to the exploration plan specifies access road widths will be 16 feet. Two major roadways are proposed across the northern portion of the SW $\frac{1}{4}$, Section 18, and are indicated on Map D-14.

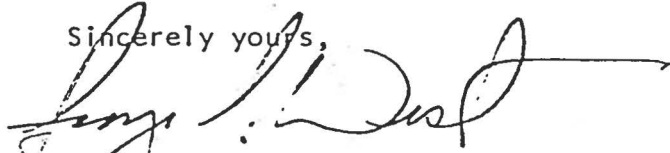
Provided that all ground breaking activity take place within the specified areas, we feel the project will have no impact on cultural material. Therefore, archeological clearance is granted for the 157 proposed drilling locations, the two proposed roadways, and the associated drill access roads described herein and indicated on Map D-14 (as revised 5/28/80).

Should any previously unrecorded and/or previously undetected cultural material be discovered during construction operations, all work must cease in the immediate area of the exposed resources. Archeologists from this office and the Office of Contract Archeology should then be notified to arrange an on-site inspection to determine the significance and disposition of the archeological remains.

It is the responsibility of project sponsors to notify subcontractors of the boundaries of the archeological clearance and stipulations under which clearance is granted.

If you have any questions concerning this clearance, please contact Bruce Panowski, Archeologist with this office. He can be reached at (505) 988-6561.

Sincerely yours,



George G. West
Supervisory Archeologist, Branch
of Indian Cultural Resources

Enclosures

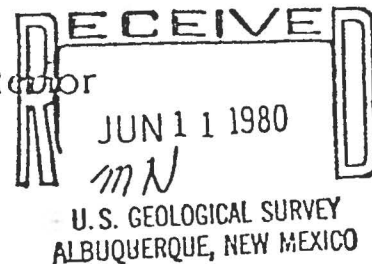
cc:

BIA, Navajo Area Office, Window Rock, AZ (2)
Dr. David Doyel, Cultural Resource
Management Program, Window Rock, AZ
U.S.G.S., Albuquerque, NM
S.H.P.O., New Mexico
Dr. Joseph Winter, OCA, Albuquerque, NM



IN REPLY REFER TO:
H24 (SWR)PS

United States Department of the Interior
NATIONAL PARK SERVICE
SOUTHWEST REGION
P.O. Box 728
Santa Fe, New Mexico 87501



JUN 06 1980

Mr. Timothy Pearson
Todilto Exploration and
Development Corporation
3810 Academy Parkway South, NE
Albuquerque, New Mexico 87109

RE: Conditional Archeological Clearance; 157 Drill Locations and
Associated Accesses, Section 18, T13N, R10W, McKinley County, New
Mexico OCA 80-134

Dear Mr. Pearson:

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<u>Site</u>	<u>Location</u>
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3. Poss. Prehistoric Lithic Scatter	SE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$
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5. Navajo Complex	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$
6. Navajo Complex	SE $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$
7. Navajo Sweathouse	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$
8. Navajo Complex	SE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$

ARCHAEOLOGICAL CLEARANCE

APPENDIX E

Uranium

EA No. A-80-1

United States Department of the Interior
Geological Survey
Originating Office and Address

USUAL ENVIRONMENTAL ASSESSMENT

Date June 13, 1980

Operator Todilto Exploration and Development Corp. Project or Well Name and No. _____

Location SW/4 Section 18 Township 13 North Range 10 West

County McKinley State New Mexico Field/Unit _____

Lease No. NOO-C-14-20-8369 Permit No. _____

Joint Field Inspection Date: June 3, 1980

Field Inspection Participants, Titles, and Organizations:

David R. Sitzler, Mining Engineer, USGS

Prepared by:

David R. Sitzler,
Mining Engineer

Related Environmental Documents:

Environmental Analysis - Koppen Mining Construction Corp. -
Section 6 Mine

Environmental Analysis - Todilto Exploration and Development
Corporation - Exploration Plan for Lease NOO-C-14-20-5681

EA NO. A-80-1
Date: June 13, 1980

Description of the Proposed Action:

The proposed action consists of the approval of an original exploration program to explore for uranium ore bodies on land covered by one Navajo Allotted Mining Lease. The lease, NOO-C-14-20-8369, is located approximately 15 miles northwest of the Grants/Milan area in McKinley County, New Mexico. The land covered by Allotted Lease -8369, is in the Southwest Quarter, Section 18, Township 18 North, Range 10 West, N.M.P.M.

The proposed exploration plan was submitted by Todilto Exploration and Development Corporation (TEDCO) on April 1, 1980. The proposed action was submitted to the Navajo Area Office, Bureau of Indian Affairs on April 22, 1980, for their review. Their recommendations for the protection of the non-mineral resources and for the reclamation of the land surface are in Appendix C. No other action by other Federal or State agencies is pending.

Surface and mineral rights to this leased land belongs to Brown Vandever, who was allotted this land from the BIA. TEDCO has the mineral rights to the BLM land in the Northwest Quarter of Section 18, which are staked as the Tess 1 through 10 claims. The mineral rights to the Southeast Quarter, and the south half of the north half of Section 13, Township 13 North, Range 11 West, N.M.P.M. are owned by the Department of Energy and leased to TEDCO. The surface rights are reserved for use of the Navajo Nation by Public Order No. 2178. TEDCO additionally holds Navajo Allotted Mining Lease NOO-C-14-20-5681 on the north half of the north half of Section 13. TEDCO holds mineral rights to the north half of the Northwest Quarter of Section 19, Township 13 North, Range 10 North, and Southwest Quarter of Section 13, Township 13 North, Range 11 West, N.M.P.M., by lease from the Santa Fe Pacific Railroad Company.

This plan calls for the drilling of 165 holes. Each hole will be between 130 to 180 feet in depth, and will be bottomed in the Entrada Limestone.

Alternatives to the Proposed Action:

1. Disapproving the Requested Action:

This alternative would prevent all of the environmental impacts. It would also prevent the allottee from realizing any economic benefit of the uranium suspect to be present on his land.

2. Approving the Requested Action:

No other exploration method or modification of the proposed exploration plan would minimize or reduce the possible environmental impacts.

EA NO. A-80-1

Date: June 13, 1980

Adverse Environmental Effects:

The only adverse environmental effect of this project would be the disturbance of a portion of the lease surface from the construction of access roads and drill sites, and the resultant disturbance of any accompanying vegetation. This environmental effect would only be temporary. It will be alleviated upon completion of reclamation activities.

Recommended Approval Conditions:

TEDCO will follow the U. S. Geological Survey Drilling Requirements of May 10, 1979, as amended May 20, 1980.

Controversial Issues and Conservation Division Responses:

The required posting of the public notice for the proposed project has resulted in no comments with opposing or conflicting views, nor evidence of controversy.

Finding of No Significant Impact:

We have considered the proposed exploration plan in the preceeding pages of this Environmental Assessment, and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly impact the quality of the human environment (40 CFR 1508.27).

Determination:

I determine that the proposed action does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).

 Acting Deputy Cons Mgr. Mining 6/23/80
(Signature and Title of Approving Official) (Date)

References:

Edwards, Gregory Alan, Environmental Analysis, Proposed Exploration Plan, Todilto Exploration and Development Corp., NOO-C-14-20-5681, June 21, 1976.

Final Environmental Impact Statement, Navajo-Exxon Uranium Development, November 16, 1976.

Sitzler, David R., Environmental Analysis - Koppen Mining Construction Corp., Section 6 Mine, September 28, 1978.



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

*E
file*

June 23, 1980

Memorandum

To: Area Director, Navajo Area Office, BIA

From: Mining Engineer, Albuquerque District, USGS, SCR

Subject: Original Exploration Plan for Navajo Allotted Mining Lease
NOO-C-14-20-8396, Todilto Exploration and Development Corp.

Enclosed for your files and those of the Superintendent, Eastern Navajo Agency are two copies of the Environmental Analysis which was prepared on this project, and our letter of approval.

David R. Sitzler
David R. Sitzler

Enclosures

P. O. Box 26124
Albuquerque, New Mexico 87125

June 23, 1980

Mr. Timothy J. Pearson
Exploration Geologist
Tbdilto Exploration and Development Corp.
3810 Academy Parkway South, NE
Albuquerque, New Mexico 87109

Dear Mr. Pearson:

Your request to drill 165 holes on Navajo Allotted Lease NOO-C-14-20-8396 is approved pursuant to all the requirements and conditions set forth in the "U. S. Geological Survey's Uranium Exploration Drilling Requirements" as revised on May 20, 1980.

Enclosed are copies of form 9-331a (Sundry Notices and Reports on Wells) and form 9-375 (Prospecting Permit Report), that must be filled out and returned to this office upon completion of this drilling program.

Please notify this office prior to commencement of drilling operations.

Sincerely,

(ORIG. SGD.) DAVID R. SITZLER
David R. Sitzler
Mining Engineer

Enclosures

cc: Area Dir., Navajo Area Office, BIA
Superintendent, Eastern Navajo Agency, BIA
File - Exploration Plan
Chrono

DRSitzler:ab: 06-23-80



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

June 25, 1980

4367
RECEIVED
DATE
TIME
BY
BR. 21 C

Memorandum

To: Area Director, Navajo Area Office, BIA

From: Mining Engineer, Albuquerque District, USGS, SCR

Subject: Drill Site Variance for Todilto Exploration and Development Corporation's Approved Exploration Plan on Navajo Allotted Mining Lease NOO-C-14-20-8396

The captioned exploration plan was approved by this office on June 23, 1980, subject to the conditions and requirements set forth in the "U. S. Geological Survey's Uranium Exploration Drilling Requirements", revised May 20, 1980.

According to these requirements, no drill sites may be constructed within 250 feet of an occupied residence, sheep-camp, archeological site, etc., without written approval of the Bureau of Indian Affairs and the lessor.

In the approved exploration plan, TEDCO proposes to drill within this 250 foot limit. Before a variance can be given to TEDCO, we must have written approval from you. The lessor has already given his written approval to this variance (copy enclosed), and the National Park Service has issued archeological clearance for all the proposed drill sites.

It would be appreciated if you would send your written approval for this variance to this office as soon as possible.

David R. Sitzler
David R. Sitzler

Enclosures

RECEIVED

JUN 26 1980

AREA BIA
REAL PROPERTY UNIT

SOUTHERN ROCK MOUNTAIN AREA - CARLSBAD, N. MEXICO
EXPLORATION EXAMINATION REPORT

Lease or Permit No. NOO-C-14-20-8396

Land Ownership Navajo Allotted

Lessee or Permittee Todilto Exploration and Development Corporation

Examiner Dale C. Jones, Mining Engineer

Date of Examination July 24, 1980

Mineral & Geologic Target Uranium in Jurassic Todilto Limestone

Location SW/4, Sec. 18, T. 13 N., R. 10 W., N.M.P.M., McKinley County, NM

Active Exploration in Progress

Inactive

Method of Prospecting Rotary drilling and downhole probing

Approved Prospecting Plan Being Followed:

Yes 6/23/80 No

Type of Surface Disturbance Access trails and drill sites

Restoration of Disturbed Surface None, exploration has just begun

Method of plugging drill holes: Bore holes temporarily plugged with wood plugs

Method of drill hole cuttings disposal: Will be placed in holes; excess cuttings will be spread out on surface.

Number of drill holes examined:

Active Approximately 10

Abandoned.

Number of drill holes completed: Approximately 50

Number of drill holes planned for program: 165

Artesian flow

Yes

No X

Type of logs run: Gamma Ray

Number of core samples taken for analysis: None

Comments: Accompanied by Tim Pearson, TEDCO Geologist; exploration in progress; abandonment and reclamation probably will not occur until main exploration program has been completed; no violations of lease terms or exploration plan were observed.

cc: Area Dir, Navajo Area Office, BIA
DCM, Mining, SCR
Field File - Jones

Dale C. Jones

July 28, 1980

RECEIVED

JUL 29 1980

AREA E A
REAL PLO.

NOV 20 1979

Lynch

Assistant Area Director/330

Proposed Uranium Mining Lease on Navajo Allotment Nos. 077031 and 059387

Field Solicitor - Window Rock

Enclosed is a copy of the Acting Deputy Commissioner's memorandum dated November 2, 1979, concerning proposed leasing of two (2) allotments by negotiations.

Before we inform the landowners and the lease applicants, we need to determine if the lease negotiations are to be reviewed for environmental impact. We also need to determine if the negotiation and approval procedures would conflict with the latest lawsuit against Charles W. Duncan, et al., seeking to halt approval of mining and milling activities in Northwestern New Mexico.

These two (2) leases are located in the Haystack area near Prewitt, New Mexico, which were never the subject of any lawsuits. The same procedure used in the Mobil lease negotiation will follow in which we will meet with the landowners after the basic term and worked out with the lease applicants.

Your advice on this matter is requested.

Ted S. Koenig

Enclosure

cc: ☒ ARPM/Minerals
Chrono
300
M/F

330:TLYNCH:bjp:11/20/79p

URANGEGSELLSCHAFT

U.S.A., Inc.

VOLKMAR JANICKE

Chief Geologist



11-11-80
8/15
89.815
FILE

Mr. Thomas Lynch
Area Real Property Management Officer
Bureau of Indian Affairs
U. S. Department of Interior
Navajo Area Office
Window Rock, AZ 86515

6000 East Evans Avenue
Building 3, Suite 200
Denver, Colo. 80222
Telephone (303) 753-0411
Telex 45-951 UGD DVR

June 27, 1980
Ja/Ko

SUBJECT:

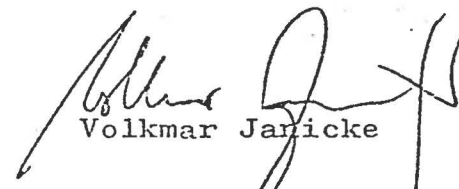
Dear Mr. Lynch:

Would you please forward a copy of each of the following to the undersigned:

1. The Indian Allotted Lease forms approved in January of this year for use by Todilto Exploration and Development Company in connection with the allotment of Mr. Brown Vandever (lessor); and
2. The Indian Allotted Lease forms recently approved for use by Teton/United Nuclear Corporation.

Thank you for your assistance.

Sincerely yours,

To: 
Volkmar Janicke

Please request the copies direct from the lessor.

Thomas Lynch
Area Realty Officer

RECEIVED

JUL 1 1980

AREA DIVISION OF
PROPERTY ADMIN.